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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): May et al.  
Serial No.: 10/652,134  
Filing Date: 8/29/2003

Examiner: Daniel H. Pan  
Group Art Unit: 2185  
Atty Docket No.: CML00770D

Title: Dataflow Graph Compression for Power Reduction in a Vector Processor

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

The undersigned submits herewith patents, publications or other information (enclosed herewith and/or listed on the enclosed list of references form) of which he or she is aware, which he or she believes is relevant and may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR §1.56. The order of listing of the references on the attached form and any appendix hereto is without regard for relative relevance to the present invention.

This Information Disclosure Statement is submitted:

- ☐ under 37 CFR §1.97(a), or  
(Accompanies the new patent application submitted herewith.)
- ☐ under 37 CFR 1.97(b), or  
(Within three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last.)
- ☒ under 37 CFR 1.97(c) together with either a:
  - ☒ Statement under 37 CFR 1.97(e), or
  - ☐ a \$180.00 fee under 37 CFR 1.17(p), or

(After the CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first.)
- ☐ under 37 CFR 1.97(d) together with a:
  - ☐ Statement under 37 CFR 1.97(e), and
  - ☐ a \$180.00 fee set forth in 37 CFR 1.17(p).

(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee.)
- ☒ Applicant(s) submit herewith Form PTO 1449-Information Disclosure Citation together with required copies, of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.
- ☐ PRIOR APPLICATIONS References identified with an asterisk (\*) in the enclosed PTO Form 1449, were disclosed in prior Patent Application No. \_\_\_\_\_, filed \_\_\_\_\_, now U.S. Patent No. \_\_\_\_\_, and, as such, copies thereof are not included pursuant to the provisions of 37 CFR 1.98(d).

☐ **FOREIGN LANGUAGE DOCUMENTS** A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 1.56(c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on Form PTO 1449 and is enclosed herewith.

☒ **FEE AUTHORIZATION**

Please see enclosed Credit Card Payment Form for any fees due at this time. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account 50-0375 pursuant to 37 CFR 1.25.

While the information and references disclosed in this Information Disclosure Statement may be "material" pursuant to 37 CFR §1.56, this statement does not constitute an admission that any patent, publication or other information referred to therein is "prior art" or "material" to this invention or any application for patent for this invention.

In accordance with 37 CFR §1.97, the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that other information that may be material as defined in 37 CFR §1.56 exists. It is submitted that the Information Disclosure Statement is in compliance with 37 CFR §1.97 and §1.98 and MPEP §609. In addition, the Examiner is requested to conduct a thorough independent search in order to bring the best references available forward in this application.

It is requested that the information disclosed herein be made of record in this application.

Express Mail #

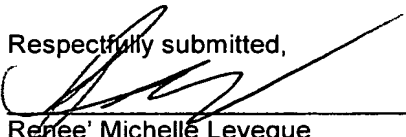
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Date of Deposit: May 31, 2006

Typed Name: Paula Barton

Signature: 

Respectfully submitted,

  
Renée' Michelle Leveque  
Attorney/Agent for Applicant(s)  
Reg. No. 36,193  
Date: May 31, 2006  
Telephone No.: 301-668-3073

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Inventor(s): May et al.

Examiner: Daniel H. Pan

Serial No.: 10/652,134

Group Art Unit: 2185

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COMMISSIONER FOR PATENTS  
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STATEMENT UNDER 37 CFR 1.97(e)

Sir:

The undersigned hereby certifies that either:

☐ Each item of information contained in the Information Disclosure Statement was first cited in any Communication from a foreign patent office in a counterpart foreign application, not more than three months prior to the filing of the statement, or

☒ No item of information contained in the Information Disclosure Statement:

Was cited in a communication from a foreign patent office in a counterpart foreign application, and

To the knowledge of the undersigned, after making reasonable inquiry, was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the Information Disclosure Statement.

☒ FEE AUTHORIZATION

At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account 50-0375 pursuant to 37 CFR 1.25.

Respectfully submitted,

By 

Renee' Michelle Leveque

Attorney/Agent for Applicant(s)

Reg. No. 36,193

Date: May 31, 2006

Telephone No. 301-668-3073



# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	10/652,134		
	Filing Date	8/29/2003	
	First Named Inventor	May et al.	
	Group Art Unit	2185	
	Examiner Name	PAN, Daniel	
Total Number of Pages in This Submission	104	Attorney Docket Number	CML00770D

**ENCLOSURES (check all that apply)**

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Notice to File Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) ____ <input checked="" type="checkbox"/> Information Disclosure Statement <input checked="" type="checkbox"/> Statement under 37 CFR 1.97(e) <input checked="" type="checkbox"/> Form 1449A <input checked="" type="checkbox"/> Form 1449B	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): 1. Return receipt postcard. 2. 4 NPL documents
		Remarks

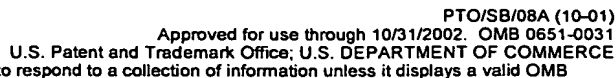
**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm or Individual name	Renee' Michelle Leveque Leveque Intellectual Property Law, P.C. Reg. No. 36, 193
Signature	
Date	May 31, 2006

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited, on the date indicated below, with the United States Postal Service as first class mail with sufficient postage in an envelope addressed to:			
Express Mail label no.: ____		Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450	
Type or printed name	Paula Barton		
Signature		Date	May 31, 2006

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
*(use as many sheets as necessary)*

Sheet	1	of	1
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**Complete if Known**

Application Number	10/652,134
Filing Date	3/29/2003
First Named Inventor	May et al.
Art Unit	2185
Examiner Name	Daniel H. Pan
Attorney Docket Number	CML00770D

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.

<sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of

the reign of the Emperor must precede the serial number of the patent document.<sup>5</sup> Kind of document by the appropriate symbols as indicated on the

document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.



PTO/SB/08B (10-01)  
Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/652,134
				Filing Date	3/29/2003
				First Named Inventor	May et al.
				Art Unit	2185
				Examiner Name	Daniel H. Pan
Sheet	1	of	1	Attorney Docket Number	CML00770D

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Al-Mouhamed, M., "Lower Bound on the Number of Processors and Time for Scheduling Precedence Graphs with Communication Costs", IEEE, December 1990	
		Samadzadeh, F. et al., "A Heuristic Multiprocessor Scheduling Algorithm for Creating Near-Optimal Schedules Using Task System Graphs", ACM, 1992	
		Prasanna, G.N., et al., "Generalized Multiprocessor Scheduling for Directed Acyclic Graphs", IEEE, 1994	
		Kwok, Y. et al., "Static Scheduling Algorithms for Allocating Directed Task Graphs to Multiprocessors", ACM, December 1999	

Examiner Signature		Date Considered	
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